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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/659,751	09/10/2003	Toshikazu Kobayashi	SCEY 20.609 (100809-00221)	3472
26304	7590	11/14/2006	EXAMINER	
KATTEN MUCHIN ROSENMAN LLP 575 MADISON AVENUE NEW YORK, NY 10022-2585			RIVERO, MINERVA	
			ART UNIT	PAPER NUMBER
			2627	

DATE MAILED: 11/14/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/659,751	<b>Applicant(s)</b> KOBAYASHI ET AL.	
	<b>Examiner</b> Minerva Rivero	<b>Art Unit</b> 2627	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 10 August 2006.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 7 and 9 is/are allowed.
- 6) ☒ Claim(s) 1,4-6,8 and 10 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 10 August 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

### **DETAILED ACTION**

1. In the Remarks filed 8/10/06, Applicants amended claims 1, 6-7, and 9-10, and cancelled claims 2-3. Furthermore, Applicants submitted replacement drawings.

### ***Response to Arguments***

2. In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case Toru's disclosure provides reasoning for including the limitation in Fujimoto's invention.

### ***Allowable Subject Matter***

3. Claims 7 and 9 are allowed.

***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

5. Claims 1, 4 and 10 are rejected under 35 U.S.C. 102(a) as being anticipated by Fujimoto (U.S. Publication 2002/0159343).

6. Regarding claim 1, Fujimoto disclose an optical disk reproducing device comprising (Figs. 3 and 10): a motor for rotating an optical disk (Figs. 3 and 10, element 16) having at least either one of a first area (Fig. 16a, area from P<sub>0</sub> to P<sub>1</sub> or Fig. 16b, recorded part of an information area) and a second area (Fig. 16a, A<sub>30</sub> or Fig. 16b, part other than the recorded area); an optical head for receiving a spot light after being reflected on the optical disk (Figs. 3 and 10, element 1); a signal generating section for generating a comparison reference signal from an output signal of the optical head ([0079] and [0124]); a comparing section for comparing the comparison reference signal with a predetermined threshold value ([0080] and [0125]), and generating a comparison signal containing at least one of a first signal status (Fig. 4,  $\alpha=1$ ,  $\beta=0$  or Fig. 11,  $\alpha=1$ ,  $\beta=1$ ) corresponding to the first area and a second signal status (Fig. 4,  $\alpha=0$ ,  $\beta=0$  or Fig. 11,  $\alpha=0$ ,  $\beta=0$ ) corresponding to the second area; and a control section (Figs. 3 and 10, element 6) for observing signal status of the comparison signal at least

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throughout a duration during which the spot light goes round once on the optical disk (See Figs. 9a and 9c or [0151]), and making a decision, based on the observed result, about in which of the first area and the second area the spot light falls, wherein

the control section makes a decision on whether the first signal status was sustained at least throughout a duration during which the spot light went round once on the optical disk, based on the observed result (See Figs. 9a and 9c or [0151]),

the control section controls the optical head so as to activate a tracking servo ([0084] or [0129]) when the control detects that the first signal status was sustained at least throughout a duration during which the spot light went round once on the optical disk (See Figs. 9a and 9c or [0151]), and

the comparing section generates the comparison signal containing both of the first signal status and the second signal status at the case that the spot light travels though the first and second areas throughout a duration during which the spot light goes round once on the optical disk (See Figs. 9a and 9c or [0151]; see [0082] or [0127]; decision based on values of  $\alpha$  and  $\beta$ ).

7. Regarding claim 4, Fujimoto discloses the optical disk reproducing device according to claim 1, further comprising: a spot light moving section (Figs. 3 and 10, element 12) for moving the spot light in a radial direction of the optical disk, wherein the control section controls the spot light moving section so as to move the spot light by a predetermined distance in the radial direction of the optical disk ([0082] lines 33-35 or [0127] lines 21-35), whenever the second signal status was detected even only once at

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least throughout a duration during which the spot light went round once on the optical disk (See Figs. 9a and 9c or [0151]).

8. Regarding claim 10, Fujimoto discloses a method (Figs. 4 and 11) of reproducing an optical disk comprising the steps of: rotating an optical disk (Fig. 4, S203 or Fig. 11, S603) having at least either one of a first area (Fig. 16a, area from P<sub>0</sub> to P<sub>1</sub> or Fig. 16b, recorded part of an information area) and a second area (Fig. 16a, A<sub>30</sub> or Fig. 16b, part other than the recorded area); generating a light reception signal of a spot light reflected by the optical disk after being irradiated therewith (signal generated by element 1 of Figs. 3 and 10); generating a comparison reference signal from the light reception signal (Fig. 4, S207 or Fig. 11, S607); generating a comparison signal containing at least either one of a first signal status corresponded to the first area and a second signal status corresponded to the second area, by comparing the comparison reference signal with a predetermined threshold value (Fig. 4, S210 or Fig. 11, S610); and observing signal status of the comparison signal at least throughout a duration during which the spot light goes round once on the optical disk (See Figs. 9a and 9c or [0151]), and making a decision, based on the observed result, about in which of the first area and the second area the spot light falls (see [0082] or [0127]; decision based on values of  $\alpha$  and  $\beta$ ).

***Claim Rejections - 35 USC § 103***

9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

10. Claims 5, 6 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fujimoto (U.S. Publication 2002/0159343) in view of Toru (JP Publication 10-172147).

11. Regarding claim 5, Fujimoto discloses the optical disk reproducing device according to claim 4, as anticipated above, wherein the control section performs a series of operations for moving the spot light by the predetermined distance (Fig. 4, S214) by controlling the spot light moving section after initial detection of sustainment of the first signal status at least throughout a duration during which the spot light went round once on the optical disk (See Figs. 9a and 9c), and controls the optical head so as to start the tracking servo ([0084]) only after detection of sustainment of the first signal status in the above operations.

Fujimoto fails to disclose repeating a predetermined number of times the series of operations.

Toru discloses repeating the series of operations a predetermined number of times (Fig. 6, F105-F109; also, pg. 3, line 25 - pg. 4, line 17 of Specification)

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It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device of Fujimoto with a repetitive operation process to move the spot light.

Motivation for such combination is to find a suitable starting place for data reproduction (Toru [0032]).

12. Regarding claim 6, Fujimoto discloses the optical disk reproducing device according to claim 1, as anticipated above, but fails to disclose a control section that stores a relative position of the spot light and the optical disk and sets the relative position as an initial position where the next irradiation of the spot light is started.

Toru discloses a control section that stores a relative position of the spot light and the optical disk and sets the relative position as an initial position where the next irradiation of the spot light is started (Pg. 4, lines 3-10 of Specification).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device of Fujimoto with one in which the relative position of the spot light is preserved.

Motivation for such combination is to prohibit the optical pickup from being too close to a mirror side of an optical disk (Toru [0028]).

13. Regarding claim 8, Fujimoto discloses the optical disk reproducing device according to claim 1, as anticipated above, but fails to disclose the optical disk reproducing device wherein the signal generating section generates a differential signal of a top-hold signal and a bottom-hold signal of the output signal from the optical head



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as the comparison reference signal; and the comparing section generates the comparison signal which takes the first signal status when the comparison reference signal exceeded the predetermined threshold value, and takes the second signal status when the comparison reference signal came short of the predetermined threshold value.

Toru discloses the optical disk reproducing device wherein the signal generating section generates a differential signal (Fig. 2, output of element 34) of a top-hold signal (Fig. 2, output of element 32) and a bottom-hold signal (Fig. 2, output of element 33) of the output signal from the optical head as the comparison reference signal; and the comparing section (Fig. 2, element 36) generates the comparison signal which takes the first signal status when the comparison reference signal exceeded the predetermined threshold value ([0032]), and takes the second signal status when the comparison reference signal came short of the predetermined threshold value ([0027]).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device of Fujimoto with that of Toru to obtain a comparison signal that is representative of disk area.

Motivation for such combination is to obtain a comparison signal and threshold value that can easily identify area of the disk (Toru [0023]).

### **Conclusion**

14. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

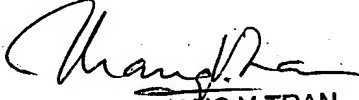
15. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minerva Rivero whose telephone number is (571) 272-7626. The examiner can normally be reached on Monday-Friday 9:00 am - 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wayne Young can be reached on (571) 272-7582. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MR 11/08/06

  
THANG V. TRAN  
PRIMARY EXAMINER